

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 3 BUSINESS AND VETERANS HIGHWAY IN ANNE ARUNDEL COUNTY. BUSINESS MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THE MODIFICATIONS CONSIST OF REPLACEMENT OF EXISTING SIGNAL HEADS WITH BLACK FACE AND THE INSTALLATION OF A NEW NEARSIDE SIGNAL HEADS FOR THE RIGHT TURN OVERLAP, SOUTHBOUND DOUBLE LEFT, AND NORTHBOUND SINGLE LEFT.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 3 (BUS.), A RIGHT TURN OVERLAP FOR VETERANS HIGHWAY, AND VIDEO DETECTION FOR ALL APPROACHES.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE, VIDEO DETECTION INTERFACE EQUIPMENT, AND TWO (2) FOUR-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET WILL BE USED.

PHASE CHART

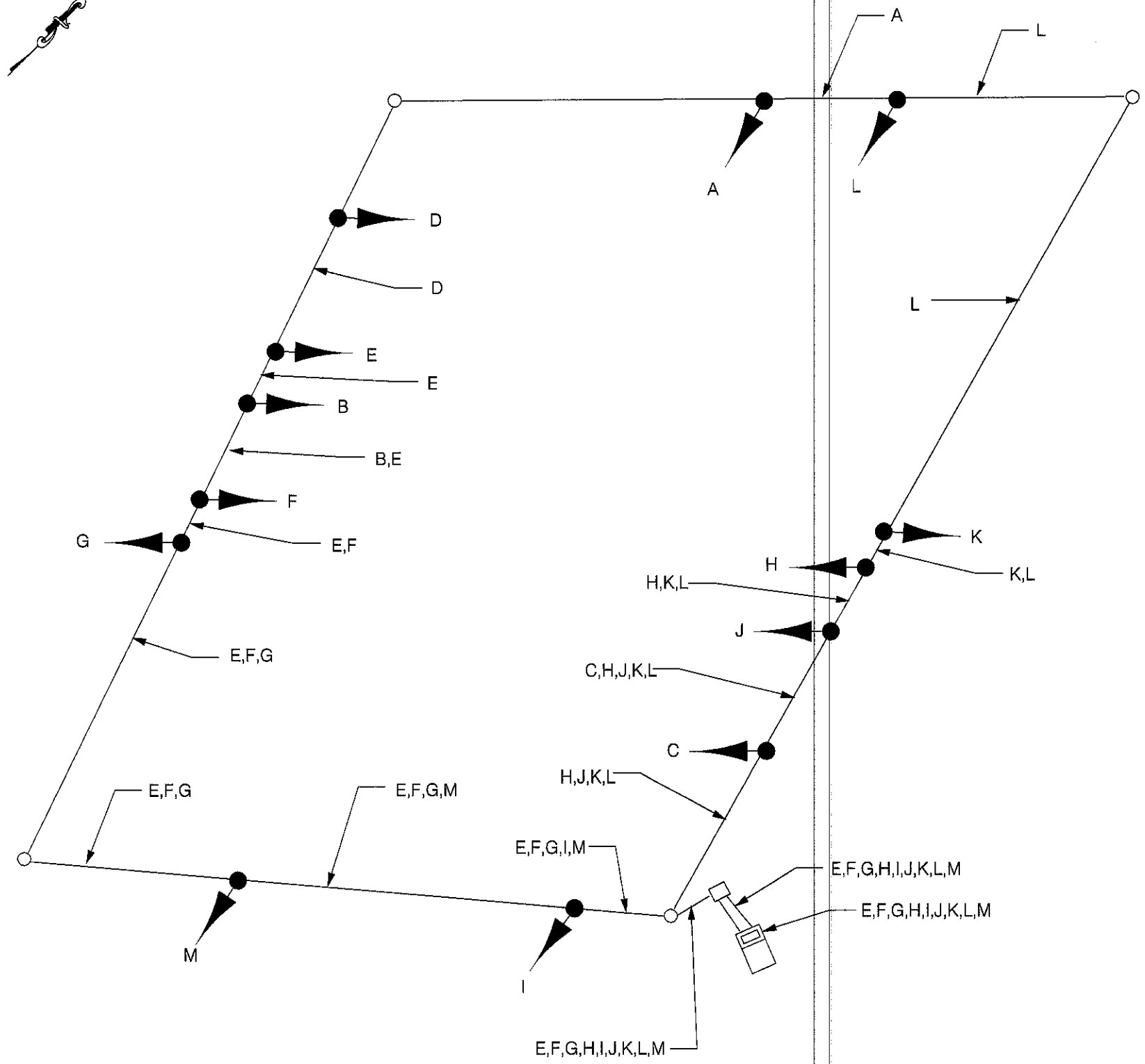
	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 5	<G-	<G-	R	R	<G-	<G-	<G-	R	R	R	R-G>	R	R-G>
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6												
PHASE 1 & 6	<G-	<G-	G	G	<R-	<R-	<R-	R	R	R	R	R	R
1 CHANGE	<Y-	<Y-	G	G	<R-	<R-	<R-	R	R	R	R	R	R
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	<G-	G	G	R	R-G>	R	R-G>
5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	<Y-	G	G	R	R-Y>	R	R-Y>
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	<R-	G	G	R	R	R	R
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	<R-	Y	Y	R	R	R	R
PHASE 4	<R-	<R-	R	R	<R-	<R-	<R-	R	R	G	G	G	G
4 CHANGE	<R-	<R-	R	R	<R-	<R-	<R-	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8011	40 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	3 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8048	LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8075	19 SF	INSTALL OVERHEAD SIGN
8084	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	1210 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)

WIRING DIAGRAM



WIRING KEY

- A-B EXISTING 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C-D 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E-K 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- L-M EXISTING 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY MSHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1003	MR. CHARLES GEORGE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1002
MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 841-1005	

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652	

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

FAX (410) 923-6473 EMAIL: TRACONCEPT@AOL.COM

SHA# AA287ASP/BSP Too# xx10654-59

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 3 BUSINESS AND VETERANS HIGHWAY

DRAWN BY: M.HOWELL	F.A.P. NO. N/A	TS NO. 2194-D-G1	SHEET NO. 2 OF 2
CHECKED BY: NONE	S.H.A. NO. ANNE ARUNDEL	T.I.M.S. NO. 6427	
SCALE: 9/15/2004	COUNTY: 02B00300.62	LOG MILE:	